
VMware vSAN: Troubleshooting

Duration: 2 Days **Course Code: VMVSANT**

Overview:

In this two-day VMware course, you focus on learning the tools and skills necessary to troubleshoot VMware vSAN™ 7 implementations. You gain practical experience with vSAN troubleshooting concepts through the completion of instructor-led activities and hands-on lab exercises.

Product Alignment: VMware ESXi™ 7 VMware vCenter Server 7 VMware vSAN 7

Target Audience:

Storage and virtual infrastructure administrators who want to be able to perform initial troubleshooting on their software-defined storage with vSAN

Objectives:

- By the end of the course, you should be able to meet the following objectives:
 - Describe the architectural components of vSAN and their roles
 - Explain how the components interact with each other
 - Explain the differences between object and component states
 - Describe how to use Skyline Health to investigate and help determine failure conditions
 - Explain how to use the command-line tools to help determine failure conditions
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Prerequisites:

You must complete one of the following prerequisites:

- Understanding of concepts presented in the VMware vSphere®: Install, Configure, Manage course
- Completion of the VMware vSAN: Deploy and Manage course or equivalent experience with vSAN
- Experience working with command-line interfaces

The course presumes that a student can perform the following tasks with no assistance or guidance before enrolling:

- Use VMware vSphere® Client™ for common operations
- Create and manage VMware vCenter Server® objects, such as data centers, clusters, hosts, and virtual machines
- Create and modify a standard switch
- Modify a distributed switch
- Create a VMware vSphere® VMFS datastore
- Use a wizard or a template to create a virtual machine
- Migrate a virtual machine with VMware vSphere® vMotion® and VMware vSphere® Storage vMotion®

If you cannot complete all of these tasks, VMware recommends that you complete the VMware vSphere: Install, Configure, Manage and VMware vSAN: Deploy and Manage courses before enrolling in VMware vSAN: Troubleshooting.

Content:

1 Course Introduction	<ul style="list-style-type: none">• Describe component placement	<ul style="list-style-type: none">• Discuss the ways to run commands from the vCenter Server and ESXi command lines
<ul style="list-style-type: none">• Introductions and course logistics• Course objectives	3 Troubleshooting Methodology <ul style="list-style-type: none">• Use a structured approach to solve configuration and operational problems	<ul style="list-style-type: none">• Discuss the ways to access vSphere ESXi Shell
2 vSAN Architecture	<ul style="list-style-type: none">• Apply troubleshooting methodology to logically diagnose faults and optimize troubleshooting efficiency	<ul style="list-style-type: none">• Use commands to view, configure, and manage your vSphere environment
<ul style="list-style-type: none">• Describe the vSAN architecture and components	4 Troubleshooting Tools	<ul style="list-style-type: none">• Discuss the esxcli vsan namespace commands
<ul style="list-style-type: none">• Describe the policy-driven, object-based vSAN storage environment	<ul style="list-style-type: none">• Discuss VMware Skyline Health and the associated service	<ul style="list-style-type: none">• Discuss when to use Ruby vSphere Console (RVC) commands
<ul style="list-style-type: none">• Describe the CLOM, DOM, LSOM, CMMDS, and RDT vSAN software components	<ul style="list-style-type: none">• Describe the use of VMware Skyline Health to identify and correct problems in VMware vSAN	<ul style="list-style-type: none">• Explain which log files are useful for vSAN troubleshooting
<ul style="list-style-type: none">• Explain the relationship between objects and components	<ul style="list-style-type: none">• Apply information presented by vSAN Health online towards problem-solving	<ul style="list-style-type: none">• Use log files to help troubleshoot vSAN problems
<ul style="list-style-type: none">• Determine how specific storage policies affect components	<ul style="list-style-type: none">• Use vsantop to view vSAN performance metrics	

Further Information:

For More information, or to book your course, please call us on 00 966 92000 9278

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